

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Jarrell Ph.D., Kevin A.
Saha Ph.D., Shamol
Ptashne Ph.D., Mark

(ii) TITLE OF INVENTION: NOVEL TRANSCRIPTIONAL REGULATORS AND
USES THEREFOR

(iii) NUMBER OF SEQUENCES: 26

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Choate, Hall & Stewart
(B) STREET: 53 State Street
(C) CITY: Boston
(D) STATE: MA
(E) COUNTRY: USA
(F) ZIP: 02109

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US
(B) FILING DATE: 26-AUG-1998
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Jarrell Ph.D., Brenda H.
(B) REGISTRATION NUMBER: 39,223
(C) REFERENCE/DOCKET NUMBER: 0347941-0031

(ix) TELECOMMUNICATION INFORMATION:

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(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 140 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Oligo 2, used to produce R10 library

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CTCTGGGAGC TGCATTGGC AGAATTCCGG CTAGAACTAG TGGATCCCC GGGCGAGGCT 60
TATCCNNNNN NNNNNGGATG TGCTGACCCC GGGCAGCTTG CATGCCTGCA GGTGACTCT 120

5 AGAAAACATG AGGATCACCC 140

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

- (B) CLONE: Oligo 1, used to create R10 library

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CTCTGGGAGC TGCATTGGC 20

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

- (B) CLONE: Oligo 3 used to create R10 library

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GGGTGATCCT CATGTTTCT 20

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

- (B) CLONE: Riboactivator consensus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

UGCDGGHNMD

10

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Riboactivator 1 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

UGCGGGUACG

10

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Riboactivator number 2 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

UUGCUGGCGA

10

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Riboactivator 3 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

UGCGGGUCAU

10

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Riboactivator 4 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

UGCGGGUUCG

10

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Ribactivator 5 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

UGCGGGAUCA

10

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Riboactivator 6 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

UGCAGGUUCG 10

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Riboactivator 7 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

UGCUGGAUCA 10

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Riboactivator 8 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

UUGCUGGCCGA 10

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(A) LIBRARY: Non-riboactivator 3 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CACGGTAAGT 10

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Non-riboactivator 6 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

CAAAGACAGG 10

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Non-riboactivator 8 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

GGCTGGTGGT 10

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 9 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Non-riboactivator 10 sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GTAGAGCGA

9

(2) INFORMATION FOR SEQ ID NO:17:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 140 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: R40 oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

CTCTGGGAGG TCGATTGGC AGAATTCCGG CTAGAACTAG TGGATCCCC NNNNNNNNNN 60

NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN GGCAGCTTG CATGCCTGCA GGTCGACTCT 120

AGAAAACATG AGGATCACCC

140

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 40 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Keene-1 oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

CCGGGCGAGG CTTATCCTGG TGGAGCAGGA TGTGCTGACC

40

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 40 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Keene-2 oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

CCGGGGTCAG CACATCCTGC TCCACCAGGA TAAGCCTCGC

40

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 59 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Tar-1 oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

CCGGGTCTCT CTGGTTAGAC CAGATCTGAG CCTGGGAGCT CTCTGGCTAA CTAGAGAAC 59

(2) INFORMATION FOR SEQ ID NO:21:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 59 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: Tar-2 oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

CCGGGTTCTC TAGTTAGCCA GAGAGCTCCC AGGCTCAGAT CTGGTCTAAC CAGAGAGAC 59

(2) INFORMATION FOR SEQ ID NO:22:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 59 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(vii) IMMEDIATE SOURCE:

(B) CLONE: 5/Tar-1 oligonucleotide

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

CCGGGTCTCT CTGGTTAGAC CAGATCTGAG CCGGGATGCT CTCTGGCTAA CTAGAGAAC 59

10 (2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 59 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

15 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

20 (vii) IMMEDIATE SOURCE:

(B) CLONE: 5/Tar-2 oligonucleotide

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

CCGGGTTCTC TAGTTAGCCA GAGAGCATCC CGGCTCAGAT CTGGTCTAAC CAGAGAGAC 59

30 (2) INFORMATION FOR SEQ ID NO:24:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 16 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

35 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

40 (vii) IMMEDIATE SOURCE:

(B) CLONE: 7/Sma-1 oligonucleotide

45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

CCGGGTGCTG GATCAC 16

50 (2) INFORMATION FOR SEQ ID NO:25:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 16 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

55 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

60 (vii) IMMEDIATE SOURCE:

(B) CLONE: 7/Sma-2 oligonucleotide

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

CCGGGTGATC CAGCAC

16

10 (2) INFORMATION FOR SEQ ID NO:26:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 22 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

15 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

20 (vii) IMMEDIATE SOURCE:

(B) CLONE: Probe of riboactivator 7 loop

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

CCCGGGUGCU GGAUCACCCG GG

22